

FILE NOTATIONS

Entered in NID File

Entered On 5 R Sheet

Location Map Plotted

Card Indexed

I W R for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed

Location Inspected

OW _____ WW _____ TA _____

Bond released

GW _____ OS _____ PA _____

State of Fee Land

LOGS FILED

Driller's Log

Electric Logs (No.)

E _____ L _____ E-L _____ GR _____ GR-N _____ Misc _____

Lat _____ Mi-L _____ Sonic _____ Others _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		5. Lease Designation and Serial No.	
DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		U-17309	
b. Type of Well		6. If Indian, Allottee or Tribe Name	
Oil Well <input checked="" type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>		N/A	
2. Name of Operator		7. Unit Agreement Name	
COLORADO-PACIFIC PETROLEUM CORPORATION (303)629-1564		None	
3. Address of Operator		8. Farm or Lease Name	
1020-15th Street, Suite 41N, Denver, Colorado 80202		West Kolman	
4. Location of Well (Report location clearly and in accordance with any State requirements.)*		9. Well No.	
At surface NW SE Section 1, T21S, R23E 1905' 1780' FEL, 1860' FSL <i>NW 1/4</i> At proposed prod. zone Same		WK #1-46	
14. Distance in miles and direction from nearest town or post office*		10. Field and Pool, or Wildcat	
Approximately 4 1/2 miles North of Cisco, Utah and 60 miles West of Grand Junction, Colorado		Greater Cisco Area	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)		11. Sec., T., R., M., or Blk. and Survey or Area	
1780'		NW SE Section 1, T21S, R23E	
16. No. of acres in lease		12. County or Parrish	
640		Grand	
17. No. of acres assigned to this well		13. State	
10		Utah	
18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.		19. Proposed depth	
1400'		1650'	
20. Rotary or cable tools		21. Elevations (Show whether DF, RT, GR, etc.)	
Rotary		4500' GR	
22. Approx. date work will start*		September 1, 1980	
23. PROPOSED CASING AND CEMENTING PROGRAM			
Size of Hole	Size of Casing	Weight per Foot	Setting Depth
12 1/4"	8 5/8"	24#	150'
7 7/8"	4 1/2"	10.5#	Thru pay zone
			Quantity of Cement
			Cement to surface
			150-200' above upper-most hydrocarbon section

Well will be drilled to test Dakota and Entrada Sand formation for oil or gas. All shows encountered will be tested. The well will be drilled with rotary tools, using air for circulation. The surface casing will be set at about 150' and cemented with returns to the surface. A blowout preventer with hydraulically operated blind and pipe rams will be installed on top of the surface casing, and a rotating head will be used on top of the blowout preventer. Fill and kill lines (2") will be connected below the blind rams. Any gas encountered will be flared at the end of the blowout line and roughly checked for volume through 2" line after the pipe is cemented. A prognosis for the well is attached.

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING

DATE: 8-6-80

BY: M. J. Munder

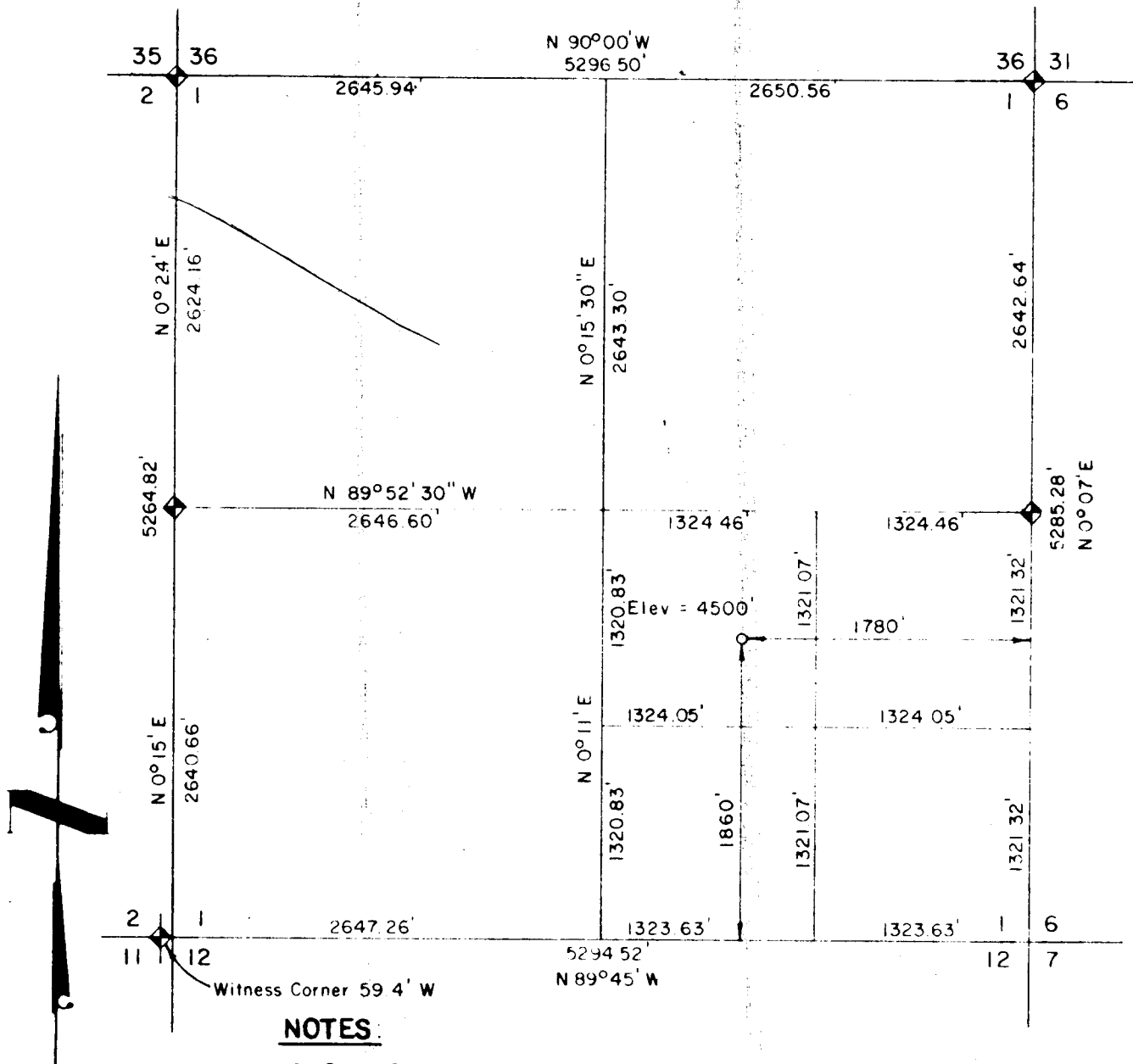
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Signed Elaine Johnson Title LANDMAN Date July 25, 1980
 ELAINE JOHNSON
 (This space for Federal or State office use)

Permit No. _____ Approval Date _____

Approved by _____ Title _____ Date _____
 Conditions of approval, if any:

WK 1-46



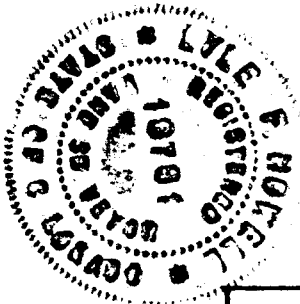
NOTES:

- Steel Post at Well Location
- ◆ Existing Corner Found - Brass Caps
- Dimensions Based on G.L.O. Plat
- Elevation Based on Mean Sea Level


CERTIFICATE OF SURVEY

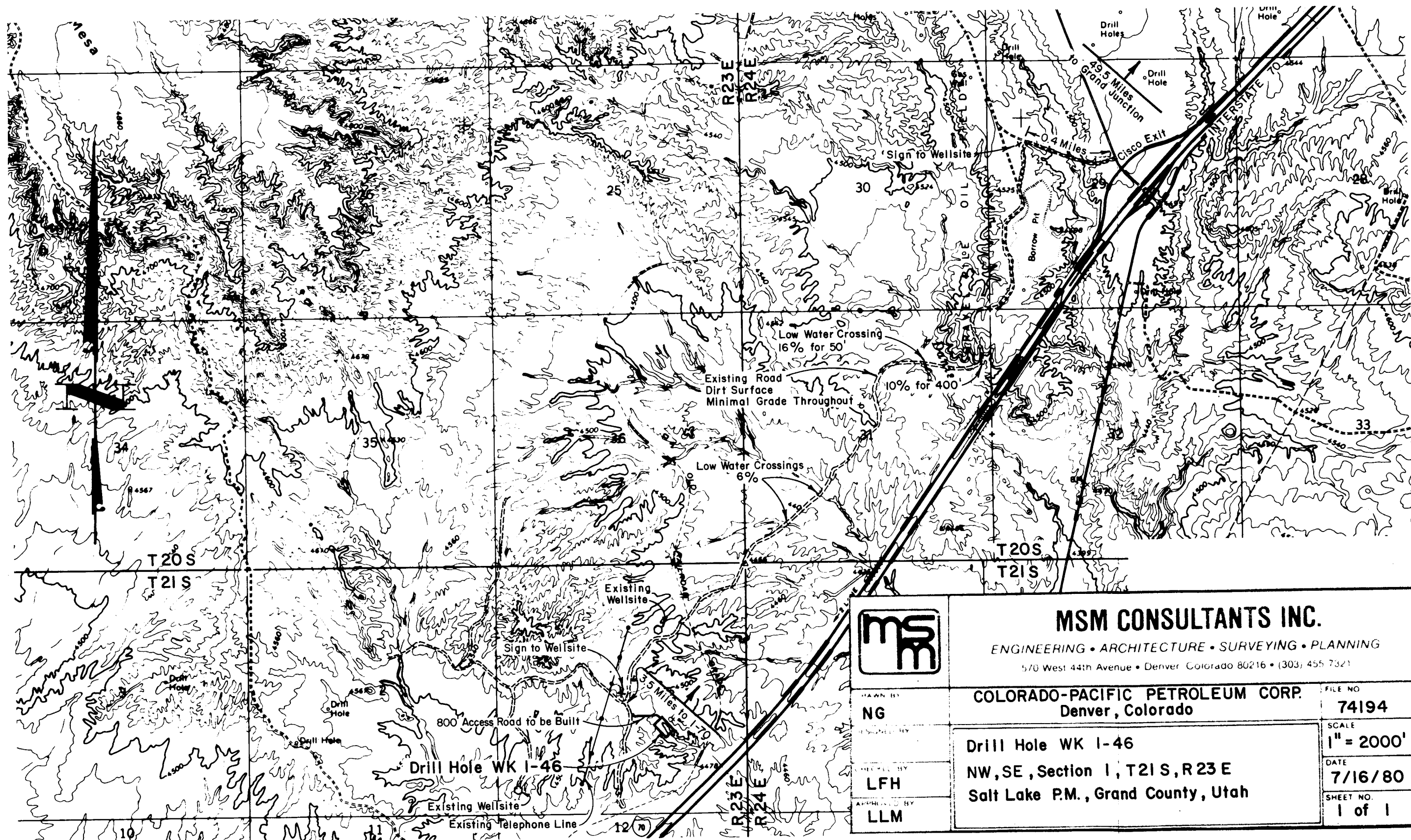
Date of Survey 7/11/80


This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my belief and knowledge

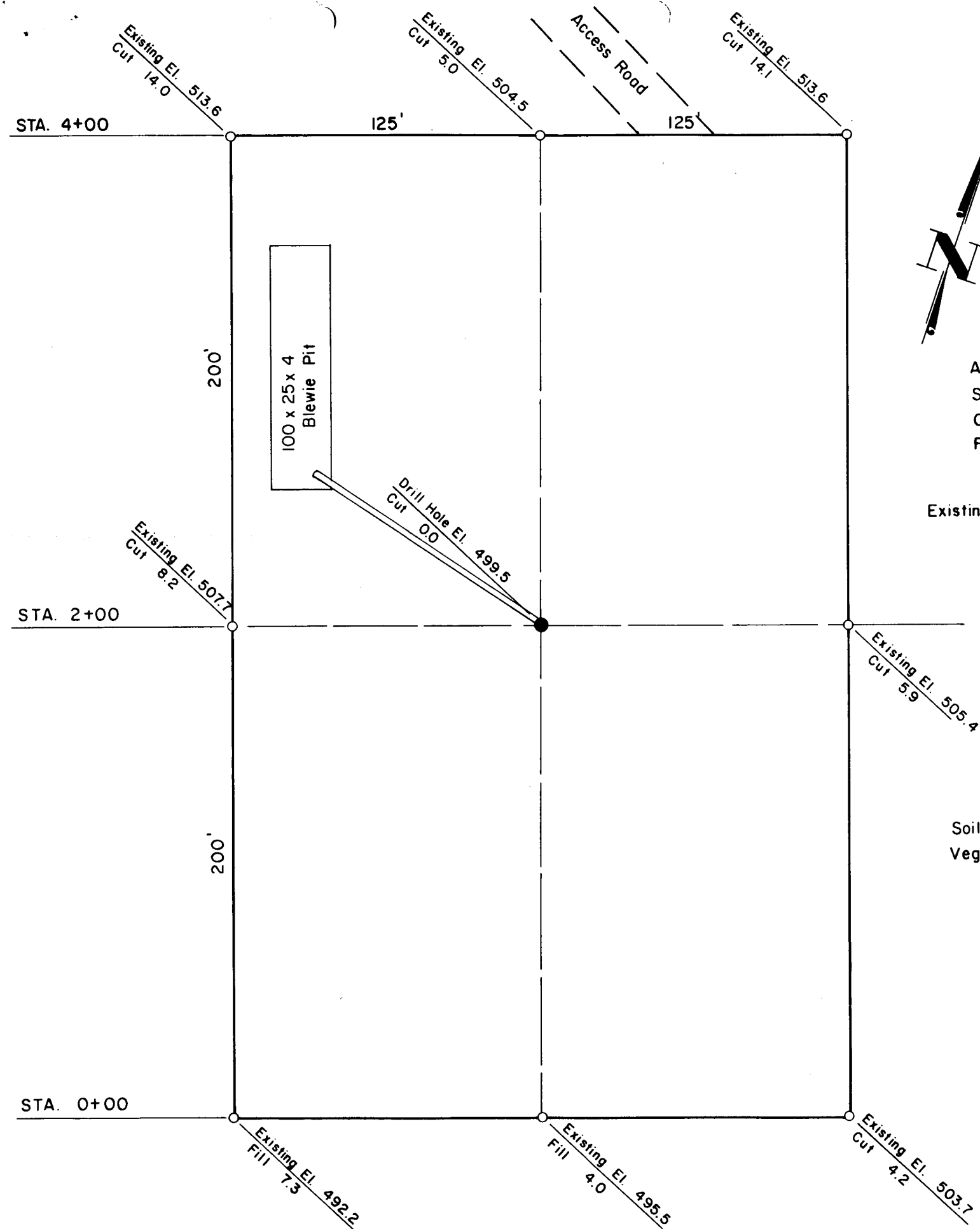


Lyle J. Howell
REGISTERED LAND SURVEYOR

		MSM CONSULTANTS INC. ENGINEERING • ARCHITECTURE • SURVEYING • PLANNING 570 West 44th Avenue • Denver, Colorado 80211 • (303) 455-7321	
DRAWN BY	NG	COLORADO-PACIFIC PETROLEUM CORP. Denver, Colorado	FILE NO 74194
DESIGNED BY		Drill Hole WK 1-46 NW, SE, Section 1, T21S, R23E Salt Lake P.M., Grand County, Utah	SCALE 1" = 1000'
CHECKED BY	LFH		DATE 7/16/80
APPROVED BY	LLM		SHEET NO 1 of 1



 DRAWN BY NG DESIGNED BY LFH CHECKED BY LLM	MSM CONSULTANTS INC. ENGINEERING • ARCHITECTURE • SURVEYING • PLANNING 570 West 44th Avenue • Denver, Colorado 80216 • (303) 455 7323	
	COLORADO-PACIFIC PETROLEUM CORP. Denver, Colorado	FILE NO 74194
	Drill Hole WK I-46 NW, SE, Section 1, T21 S, R23 E Salt Lake P.M., Grand County, Utah	SCALE 1" = 2000'
		DATE 7/16/80 SHEET NO. 1 of 1

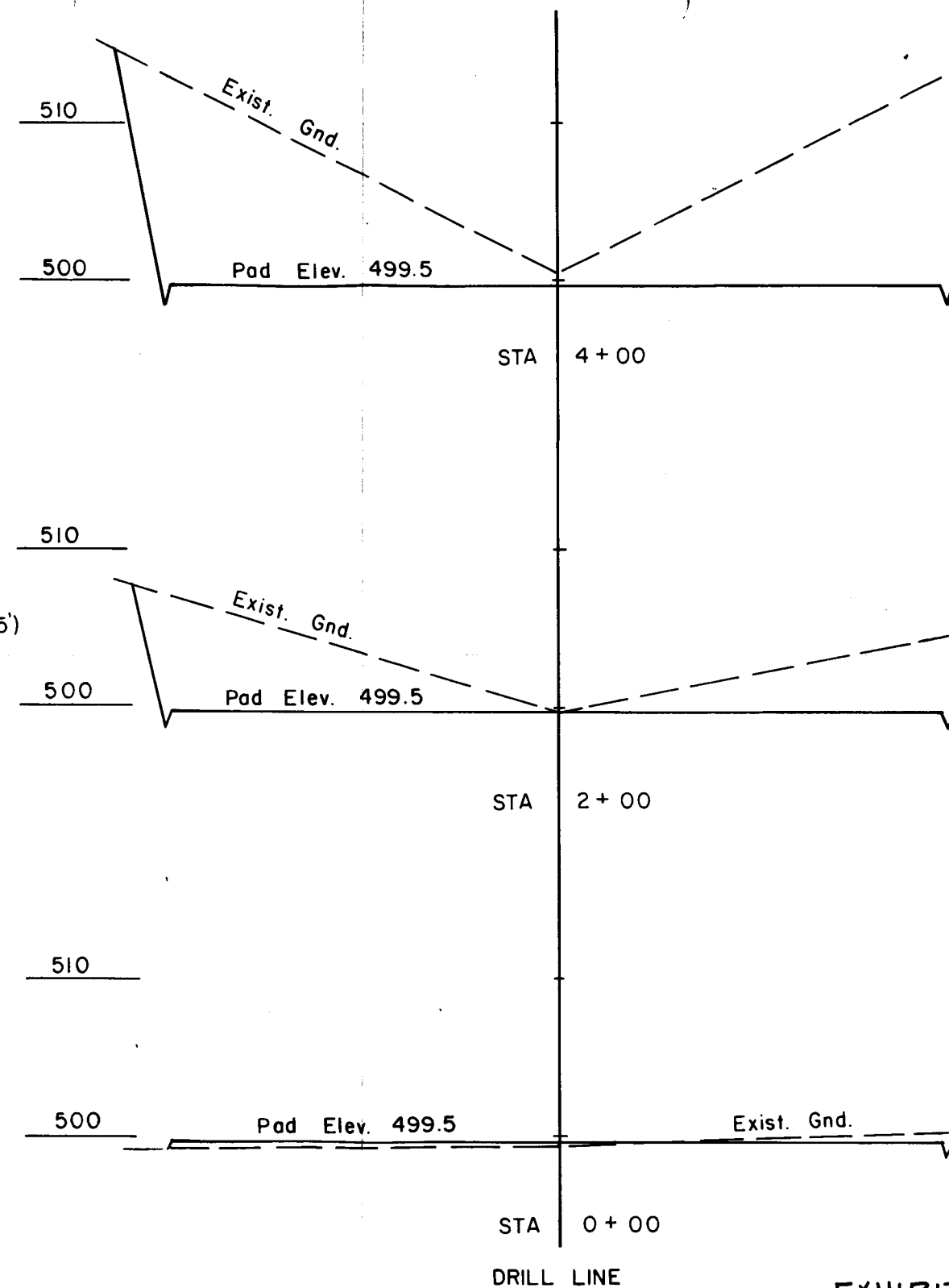


SCALE: 1" = 50' Horz.
1" = 50' Vert.


APPROXIMATE YARDAGES (yd³)
Stripping - 1850
Cut - 1600
Fill - 3600

Existing Elevations Are After Stripping (0.5')

Soil - Light Sandy Loam
Vegetation - Sparse Grasses



EXHIBIT

		MSM CONSULTANTS INC. <small>ENGINEERING AND ARCHITECTURE • S. F. HAYES, JR., P.E.</small> <small>570 West 14th Avenue • Denver, Colorado 80202-4141</small>	
		LOCATION & LAYOUT SHEET	
		COLORADO-PACIFIC PETROLEUM CORP. DENVER, COLORADO WK 1-46	
		SEC. 1, T21S, R23E, SALT LAKE MERIDIAN GRAND COUNTY, UTAH	
DRAWN BY ML	CHECKED BY BC	DATE 	BY
APPROVED BY LH			

WELL CONTROL EQUIPMENT FOR

WELL NO. WK #1-46

The following control equipment is planned for the above designated well: (See attached diagram)

1. Surface Casing:

- A. Hole size for surface casing is 12 1/4".
- B. Setting depth for surface casing is approximately 150 ft.
- C. Casing specs. are: 8 5/8" O.D., K-55, 24#, 8rd thread, R-3 new or used.
- D. Anticipated pressure at setting depth is approximately 3600 lbs.
- E. Casing will be run using three centralizers and a guide shoe, and will be cemented with returns to the surface.
- F. Top of the casing will be near ground level.

2. Casing Head:

Flange size: 10", A.P.I. Pressure Rating: 2000#, Series 600; Cameron, OCT, or equivalent; new or used; equipped with two 2" ports with nipples and 2", 2000#, W.P. ball or plug valves. Casing head and valves set above ground level. (A flange only may be used on top of the casing, if the B.O.P. is equipped with 2" outlets below the blind rams.)

3. Intermediate Casing:

None

4. Blowout Preventers:

- A. Double rams, hydraulic; one set of blind rams; one set of rams for 3½ or 4" drill pipe; 10" flange, 2000# or greater W.P.; Series 900; equipped with mechanical wheels and rod for backup; set on top of casing head flange and securely bolted down and pressure tested for leaks up to 2000# P.S.I.
B.O.P. will be tested for leaks at 2000# P.S.I. prior to drilling below surface casing.
- B. Rotating head: Shaffer, Grants or equivalent; set on top of blowout preventer and bolted securely; complete with kelly drive, pressure lubricator; 3½ or 4" rubber for 2000# W.P.
- C. Fill and kill lines: The fill and kill lines (2" tubing or heavy duty line pipe) are to be connected through the 2" valves on the casing head and through a manifold to permit ready switching from the fill to kill lines.

5. Auxillary Equipment:

A float valve is to be used in the bottom drill collar at all times. A safety valve that can be used in the drill pipe will be kept within easy reach on the rig floor at all times.

6. Anticipated Pressures:

The shut-in pressures of the Dakota and Entrada formations at depths of 800' to 1200' in the area have been measured at about 300# maximum. No toxic gases have ever been encountered in the area and none are anticipated.

7. Drilling Fluids:

Air will be used to drill the subject well until water is encountered, then air-soap-water mist will be used to drill the well deeper. In case of excessive caving problems, it may be necessary to convert to mud.

8. Production Casing:

- A. Hole size for production casing will be 7 7/8".
- B. Approximate setting depth will be about 1650'.
- C. Casing specs. are: 4½" O.D., K-55, 9.5#, 8-rd thread, R-3 new.
- D. If good production is obtained, the casing will be run with a guide shoe at the bottom and about six centralizers and cemented conventionally with sufficient R.F.C. cement to cover 150'-200' above the top of the uppermost hydrocarbon section. The production zone will be perforated, 2 3/8" O.D. tubing will be run, and the well completed conventionally. In the event the production is small, it may be desirable to minimize the damage to the formation by keeping all mud and cement off the formation.

NTL-6 ENVIRONMENTAL STATEMENT

SURFACE USE PLAN

OPERATOR: COLORADO-PACIFIC CORPORATION
1020 15th Street, Ste. 41N
Denver, CO. 80202

LEASE & WELL NAME: Greater Cisco Area, WK #1-46, Lease No. U-17309

LOCATION: NW SE Section 1, T21S, R23E

COUNTY & STATE: Grand County, Utah

TO: The United States Geological Survey (USGS) and the Bureau of
Land Management (BLM)

The following information, maps, plats, and descriptions of various
surface characteristics should fulfill the requirements of the various
agencies as to the environmental commitment of the operator at the
above-named well site.

GEOLOGIC NAME OF THE SURFACE FORMATION

Mancos SH

ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

Mancos	surface to 1500'
Dakota SS	1500'
Cedar Mountain	1700'
Buckhorn SS	1800'
Morrison	1850'
Brushy Basin	2000'
Salt Wash	2100'

ESTIMATED DEPTHS AT WHICH ANTICIPATED WATER, OIL, GAS, OR OTHER MINERAL-
BEARING FORMATION ARE EXPECTED TO BE ENCOUNTERED

Oil and gas are potentially productive out of all of the zones listed in
the section above and the production from each zone may be expected at the
depth shown.

PROPOSED CASING PROGRAM

8 5/8" surface casing will be set to a depth of approximately 200 feet with
approximately 100 sacks of cement with returns to the surface.

4 1/2" O.D., 10.50 lb. K-55, R-3 new casing will be run and cemented
conventionally with sufficient cement to cover 200 feet above the top of the
formation to be perforated. The production zone will then be perforated, and
2 3/8" O.D. tubing will be run.

PRESSURE CONTROL EQUIPMENT WITH SCHEMATIC DIAGRAM

A casing head or flange will be mounted on top of the surface casing and a blow-out preventer with blind and pipe rams (hydraulic) will be mounted on the casing head. A rotating head will then be mounted on top of the blow-out preventer. A blowie line, at least 125 feet long, will then be attached to the rotating head and extend into the reserve pit. B.O.P. will be tested to 2000 lbs. before drilling below the surface casing.

CIRCULATING MEDIUMS, QUANTITIES AND TYPE OF MUD AND WEIGHTING MATERIAL

A 7 7/8" hole will be driven below the surface casing using air for circulation. If a high gas flow is encountered (several million cubic feet) or when total depth of the well is reached, high viscosity mud (not less than 100 vis.) will be pumped into the hole to provide control of the gas and to provide a conductive medium for the logs.

AUXILIARY EQUIPMENT

The kelly cock will be on the kelly, a float sub and float immediately above the bit and a sub with the DP threads and a full opening valve (capable of being stabbed into the drill string) will be on the floor at all times.

TESTING, LOGGING AND CORING PROGRAMS

There will be no cores taken on this well. While drilling with air, a flare will be maintained at the end of the blowie line. This will insure that no shows of gas will be missed. In the event it becomes necessary to mud up the hole prior to reaching total depth, drill stem tests may be run if samples, shows in the mud or drilling breaks indicate possible hydrocarbons down to the point of setting production casing. Logging will be a Dual Induction Lateralog from the base of the surface casing to total depth and a Compensated Neutron-Formation Density over the zones of interest.

ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES OR POTENTIAL HAZARDS

No abnormal pressures are expected and no toxic gases have previously been encountered in this area and none are expected.

ANTICIPATED STARTING DATE AND DURATION

This well is one of a group of six wells which will be commenced as soon as permits are issued, and all six will be drilled in sequence with the same rig. It is anticipated that the drilling of each well will require approximately ten days.

NTL-6 13 POINT REPORT

SURFACE USE PROGRAM

1. A LEGIBLE MAP SHOWING EXISTING ROADS (SEE EXHIBIT 1)

- A. PROPOSED WELL SITE LOCATION AS STAKED (STAKING TO INCLUDE TWO (2) EACH 200-FOOT DIRECTIONAL REFERENCE STAKES):

Location has been staked under the direction of a registered land surveyor. The well site location is:

WK #1-46, NW SE Section 1, T21S, R23E

Grand County, Utah, Lease No. U-17309
County, State

- B. PLANNED ACCESS ROAD (ROUTE AND DISTANCE FROM NEAREST TOWN OR LOCATABLE REFERENCE POINT TO WHERE WELL ACCESS ROUTE LEAVES THE MAIN ROAD):

Take the East Cisco Exit to the NW for 0.4 miles. At this point there exists a sign to the wellsite. Proceed South for approximately 3 miles at which point a new road travels to the East for 800' to our WK #1-46 drillsite.

- C. ACCESS ROAD(S) TO LOCATION COLOR-CODED OR LABELED:

Access roads are labeled on Exhibit 1.

- D. IF EXPLORATION WELL, ALL EXISTING ROADS WITHIN A 3 MILE RADIUM (TYPE OF SURFACE, CONDITIONS, ETC.):

Existing roads within 3 miles of the site are shown on Exhibit 1. Unimproved roads near the well are shown in yellow.

- E. IF DEVELOPMENT WELL, ALL EXISTING ROADS WITHIN A 1 MILE RADIUM OF WELL SITE:

This well is a wildcat.

- F. PLANS FOR IMPROVEMENT AND/OR MAINTENANCE OF EXISTING ROADS:

Existing roads will be maintained for vehicle traffic.

continued...

2. MAP SHOWING ALL NECESSARY OR PLANNED ACCESS ROADS TO BE CONSTRUCTED OR RECONSTRUCTED (SEE EXHIBIT 1):

- A. WIDTH: The average width of the road will be 16' with maximum of 18'.
- B. MAXIMUM GRADES: The maximum grade will be 10% or less.
- C. TURNOUTS: See Exhibit 1.
- D. DRAINAGE DESIGN: None needed.

- E. LOCATION AND SIZE OF CULVERTS AND BRIEF DESCRIPTION OF ANY MAJOR CUTS AND FILLS: See Exhibit 2 for cut and fill diagram.
- F. SURFACING MATERIAL: None is planned initially.
- G. NECESSARY GATES, CATTLEGUARDS, OR FENCE CUTS:
- H. NEW OR RECONSTRUCTED ROADS ARE TO BE CENTER-LINE FLAGGED AT THE TIME OF LOCATION STAKING:

3. LOCATION OF EXISTING WELLS (SEE EXHIBIT 1):

A two mile radius map, if exploratory, or a one mile radius map, if development well, showing and identifying existing 1) WATER WELLS, 2) ADANDONED WELLS, 3) TEMPORARY ABANDONED WELLS, 4) DISPOSAL WELLS, 5) DRILLING WELLS, 6) PRODUCING WELLS, 7) SHUT-IN WELLS, 8) INJECTION WELLS, and 9) MONITORING OR OBSERVATION WELLS FOR OTHER RESOURCES is attached.

The proposed well is a wildcat.
See Exhibit 1.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. Within one mile radius of location showing the following existing facilities owned or controlled by lessee/operator: 1) TANK BATTERIES, 2) PRODUCTION FACILITIES, 3) OIL GATHERING LINES, 4) GAS GATHERING LINES, 5) INJECTION LINES, 6) DISPOSAL LINES.
- B. NEW FACILITIES IN THE EVENT OF PRODUCTION:

Christmas tree for production of gas will be installed at the wellhead; separators or heater-treaters will be set on gravel pads.

continued...

B. LAND OWNERSHIP:

The planned site and access road lies on Federal land administered by the Bureau of Land Management.

C. MATERIALS FOREIGN TO SITE:

Sand and gravel, if any should be required, will be obtained from private land. If so, it will be used in a small quantity for tank or heater-treater base material.

D. ACCESS ROADS.

7. METHODS FOR HANDLING WASTE DISPOSAL:

A. CUTTINGS:

Cuttings will be contained in the reserve pit.

B. DRILLING FLUIDS:

Drilling fluids, if any, will be retained in the reserve pit.

C. PRODUCED FLUIDS: No substantial production of water is expected. The small amount of hydrocarbon that may be produced during testing will be retained in the reserve pit. Previous to cleanup operations, the hydrocarbon material will be skimmed or burned as the situation dictates.

D. SEWAGE:

Chemical Toilet moved on location during operations.

E. GARBAGE:

A burn pit will be constructed and fenced with small mesh wire. The small amount of refuse will be burned. That portion which does not burn will be buried upon completion, allowing for 5 feet of cover.

F. CLEAN-UP OF WELL SITE:

The "mouse" hole and "rat" hole will be fenced or covered to eliminate a potential hazard to livestock. The reserve pit will be fenced to prevent entry of livestock until the pit is backfilled. Clean-up will be performed prior to final restoration of the site.

8. ANCILLARY FACILITIES:

None required.

continued...

1. DIMENSIONS OF FACILITIES:

All producing facilities will be inside a 200' X 300' area around the well. See Plat 3.

2. CONSTRUCTION METHODS AND MATERIALS:

Location will be level for production equipment. Separators and/or heater-treaters will be placed on gravel pads.

3. PROTECTIVE MEASURES TO PROTECT LIVESTOCK & WILDLIFE:

The battery site, if any, and treater pits will be constructed with soil materials native to the site. Construction methods will be employed to assure that no drainage flows are impaired. Further, construction will be performed to prevent the loss of any hydrocarbon from the site. This will be done in a manner that will facilitate rapid recovery and clean-up.

C. REHABILITATION OF DISTURBED AREAS UNNECESSARY FOR PRODUCTION:

Following completion of construction, these areas required for continued production will be graded to provide drainage and minimize erosion. The area unnecessary for use will be totally rehabilitated to original and undisturbed natural condition by grading to blend with the surrounding topography. Any disturbed topsoil will be replaced on those areas and seeded according to BLM recommendations.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. WATER TRANSPORTATION SYSTEM:

Cisco Springs (natural flow) located in Section 9, T20S, R23E. The water will be hauled from the spring to the wellsite by company truck along the Cisco Mesa Road and then along the unimproved road described above.

B. WATER WELLS:

None

6. SOURCE OF CONSTRUCTION MATERIALS:

A. MATERIALS:

Construction materials will consist of soil encountered within the boundaries of the proposed site. Topsoil, if present on the site, will be stripped to a depth of six inches and stockpiled in an area not to be disturbed by continuing construction. A small volume of sand and gravel may be used.

continued...

E. REHABILITATION TIMETABLE:

Clean-up operations will be performed upon moving the drilling equipment off of the location. Reseeding, seed drilling or scarification and related dozer work will be performed as soon as weather permits. Colorado-Pacific will notify the USGS and surface management agency within 10 days of completion.

11. OTHER INFORMATION:

A. SURFACE DESCRIPTION (TOPOGRAPHY, SOIL CHARACTERISTICS, GEOLOGIC FEATURES, FLORA AND FAUNA): Location is on typical Mancos soil and gravel. Sparse sage brush, shad scale, grass and weeds are present.

B. SURFACE OWNERSHIP AND USE:

The land is Federally owned and surface management is administered by the X Bureau of Land Management
 Forestry Department

C. PROXIMITY OF WATER, DWELLINGS, HISTORICAL SITES:

1. WATER: No streams present.

2. OCCUPIED DWELLINGS:

The nearest occupied dwellings are located approximately 3 mile(s) S W of the proposed
drilling site. (N,S,E,W)

3. SITES:

There are no known historical, archeological or cultural sites in the immediate area.

12. OPERATOR'S FIELD REPRESENTATIVE:

Elaine Johnson
COLORADO-PACIFIC PETROLEUM CORPORATION
1020-15th Street, Suite 41N
Denver, Colorado 80202

Office: (303) 629-1564
Home: (303) 232-1788

Ray Cottrell
232 East 2nd Street, Suite 201
Casper, Wyoming 82601

Home: (307) 265-8473
Mobile Rig Phone: (303) 245-3660, Extension 437
Mobile Phone: (303) 245-3660, Extension 293

continued...

9. WELL SITE LAYOUT:

A. CROSS-SECTION OF DRILL PAD:

See Plat #3, Proposed Rig Layout.

B. LOCATION OF BURN, TRASH, AND RESERVE PITS, SOIL MATERIAL STOCKPILES, ACCESS ROADS, MUD TANKS, PIPE RACKS, LIVING FACILITIES:

See Plat #3.

C. RIG ORIENTATION AND LAYOUT:

See Plat #3.

D. LINING OF PITS:

No liners are planned.

10. PLANS FOR RESTORATION OF SURFACE UPON COMPLETION OF OPERATION:

A. BACKFILLING, LEVELING, CONTOURING, AND WASTE DISPOSAL: SEGREGATION OF SPOILS MATERIALS AS NEEDED:

Site will be cleaned; debris removed or buried in pits; pits will be folded-in or fenced with woven wire until reclaimed. All unused portions will be contoured, graded, seeded with seed mix acceptable to BLM and scarified.

B. REVEGETATION AND REHABILITATION - INCLUDING ACCESS ROADS:

Site will be seeded with a seed mixture suggested by BLM for drilling, or scarified with a dozer or spike-tooth drag. The access road, when no longer needed, will be contoured, seeded and scarified as above except where it existed prior to operator's entry into the area.

C. PRIOR TO RIG RELEASE, PITS WILL BE FENCED AND SO MAINTAINED UNTIL CLEAN-UP:

The reserve pit will be fenced on three sides during operations, and the fourth side will be fenced after rig is moved out.

D. OIL ON PIT:

None anticipated; however, in that event, oil on pit will be removed by vacuum pump prior to pit backfill operations.

continued...

Lyle Bergner
640 1/2 Broken Spoke Road
Grand Junction, Colorado 81501

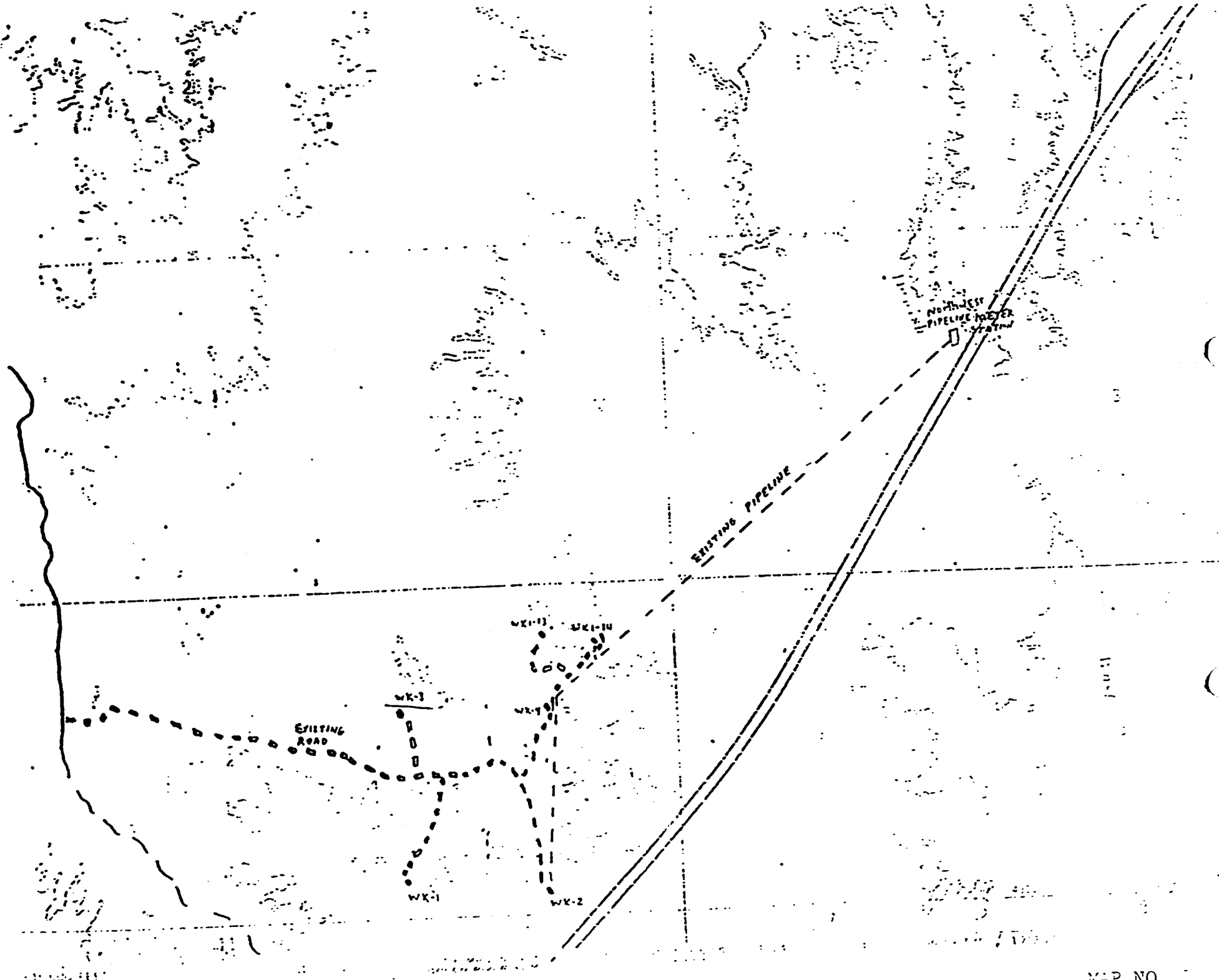
Home: (303) 245-8541
Mobile Rig Phone: (303) 245-3660, Extension 437
Mobile Phone: (303) 245-3660, Extension 293

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by the COLORADO-PACIFIC PETROLEUM CORPORATION and its constructors and sub-constructors in conformity with this plan and the terms and conditions under which it is approved.



ELAINE JOHNSON







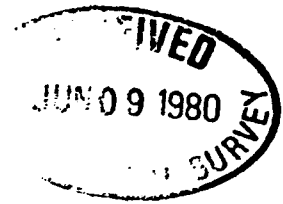
United States Department of the Interior

IN REPLY REFER TO

3100
(U-603)

BUREAU OF LAND MANAGEMENT

Moab District
Grand Resource Area
P. O. Box M
Moab, Utah 84532



June 6, 1980

Memorandum

To: Oil & Gas Office, USGS Conservation Division,
P.O. Box 1037, Vernal, Utah
From: Acting Area Manager, Grand
Subject: Colorado Pacific Petroleum Corporation
West Kolman 1-46 (WK 1-46), Lease U-17309
NE/NE Section 1, T. 21 S., R. 23 E.
Grand County, Utah

On May 20, 1980, a representative from this office met with Greg Darlington, USGS, and Karen K. French agents of Colorado Pacific Petroleum Corporation for an inspection of the above referenced location. Subject to the attached conditions, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Colorado Pacific Petroleum Corporation.

Enclosures (2)
1-Reclamation Procedures
2-Seed Mixture



Save Energy and You Serve America!

STANDARD STIPULATIONS FOR OIL & GAS EXPLORATION

Contact this office at least 24 hours prior to beginning construction of access road and pad.

Stockpile the surface nine inches of topsoil in a wind-row on the north east quadrant of the location.

The upper banks (uphill side) of all cuts will be rounded during construction of the access road and pad.

Notify the BLM District Archaeologist if cultural material from sub-surface deposits is exposed during the operation.

The trash pit will be at least six feet by six feet by eight feet deep and fenced with fine mesh wire during drilling operations.

The "blooey" line will be centered and directed into the pit.

If production is obtained, the access road will be upgraded to BLM specifications for long-term roads as outlined in the surface use standards section of the "Oil and Gas" pamphlet (joint BLM, USGS, and USFS publication).

If production is obtained, all production facilities will be painted "desert tan" or a similar color approved by the Grand Resource Area Manager.

Rehabilitation of the site and access road will be accomplished in accordance with the enclosed restoration procedures.

Production facilities and pipeline route are approved on this location under lease rights.

As agreed on during on-site field examination -

The unimproved road (10 miles long) between Cisco Mesa County Road and the new access road will be upgraded where needed. Low water crossing(s) will be improved, borrow ditching where needed to control water, berms pulled from both sides of the road, a four inch to six inch center crown maintained to facilitate water drainage.

New access road -

Topsoil will be stockpiled along the north side, low water crossings will be used and disturbance of the surface kept to a minimum.

RECLAMATION PROCEDURES IN GRAND RESOURCE AREA

1. Disk or rip pads and access roads.
 - a. Overlap passes in order to insure complete treatment.
2. Contour pads and access roads.
 - a. Lay berms into centers.
 - b. Use cut material for fill areas.
 - c. Lay stockpiled surface soil over top of pads and spread evenly.
 - d. On highly erosive soils, it may be more beneficial to grade slopes to reduce steepness.
 - e. Do not smooth pads out, leave a roughened surface. On steeper slopes and slopes with clayey soils scarify or serrate the ground in order to increase water infiltration and reduce erosion.
3. Water bar roads where required by this office.

* 2%	Grade	-	200 ft. intervals
2-4%	Grade	-	100 ft. intervals
4-5%	Grade	-	75 ft. intervals
5%	Grade	-	50 ft. intervals

* Actual spacing may vary according to soil stability. Lighter textured soils will require more frequent water bars. When natural drainage ways are present, water bars are to be constructed to make maximum use of them. Plan operations so that natural drainage ways do not become blocked.
4. Seed roads and pads in the fall (Oct. through mid-Dec.).

Glenn

FROM : DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U 17309OPERATOR: COLORADO - PACIFIC PETROLEUM CORP WELL NO. WK 1-46LOCATION: C 1 N 1/2 SE 1/4 sec. 1, T. 21S, R. 23E, SLM
GRAND County, UTAH

1. Stratigraphy: MANCOS SH 0
DAKOTA SS 730'
MORRISON FM 860'
BRUSHY BASIN MEM 960'
SALT WASH MEM 1180'

ENTRADA SS 1400'
TD 1650'

2. Fresh Water:

NONE ANTICIPATED

3. Leasable Minerals:

OIL OR GAS MAY BE FOUND IN THE
DAKOTA SS, OR MORRISON FM (730'-1350')
OR IN THE ENTRADA SS (1400' - TD)

4. Additional Logs Needed:

LOGGING PROGRAM SUFFICIENT

5. Potential Geologic Hazards:

NONE ANTICIPATED

6. References and Remarks:

Signature: Kenneth J. SeltDate: 02 JUN -1980

05 JUN REC'D

Memorandum

Glenn *Colorado Pacific*
T-215-23E

To: District Oil and Gas Engineer, Mr. Edward Guynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. U-17309 Well No. WK #1-46

1. The location appears potentially valuable for:

- ☐ strip mining*
- ☐ underground mining**
- ☒ has no known potential.

2. The proposed area is

- ☐ under a Federal lease for _____ under the jurisdiction of this office.
- ☒ not under a Federal lease under the jurisdiction of this office.
- ☐ Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the lowest strip minable zone at _____ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

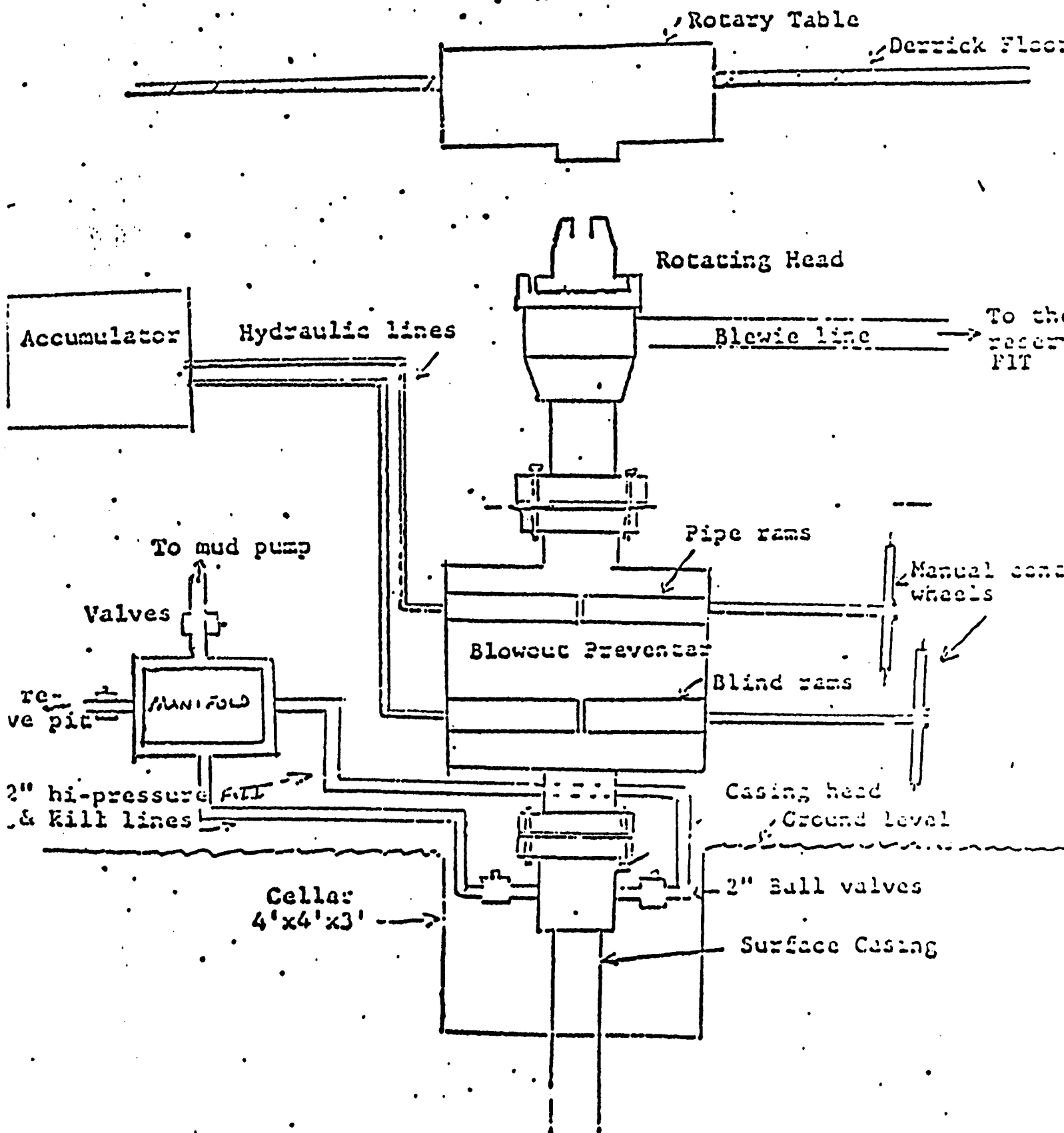
**If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.

Signed *Allen J. Vance*

JUN 16 RECD

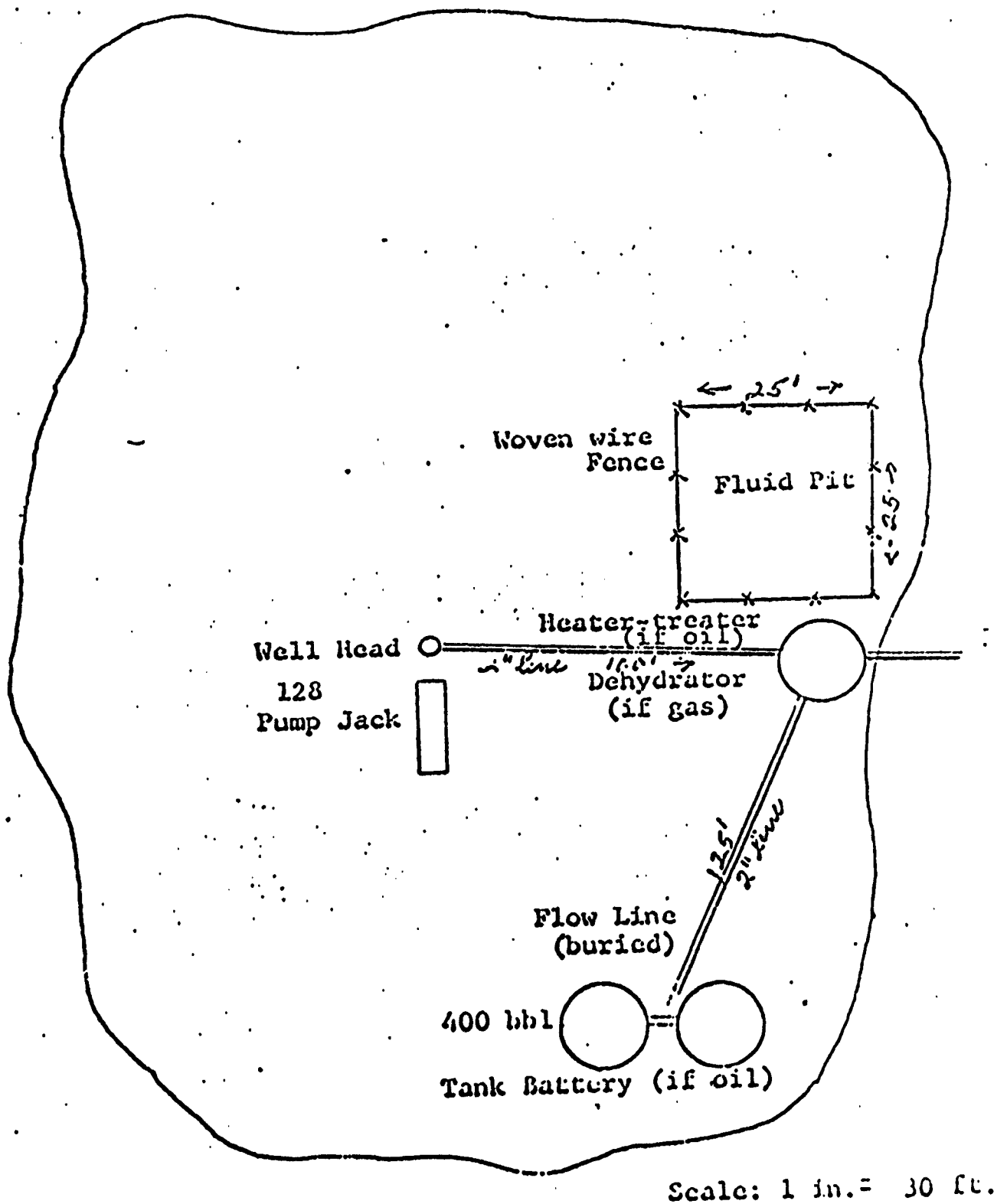
Well Name & Lease No.
Federal U-17309



PLAT 1

BLOWOUT PREVENTER

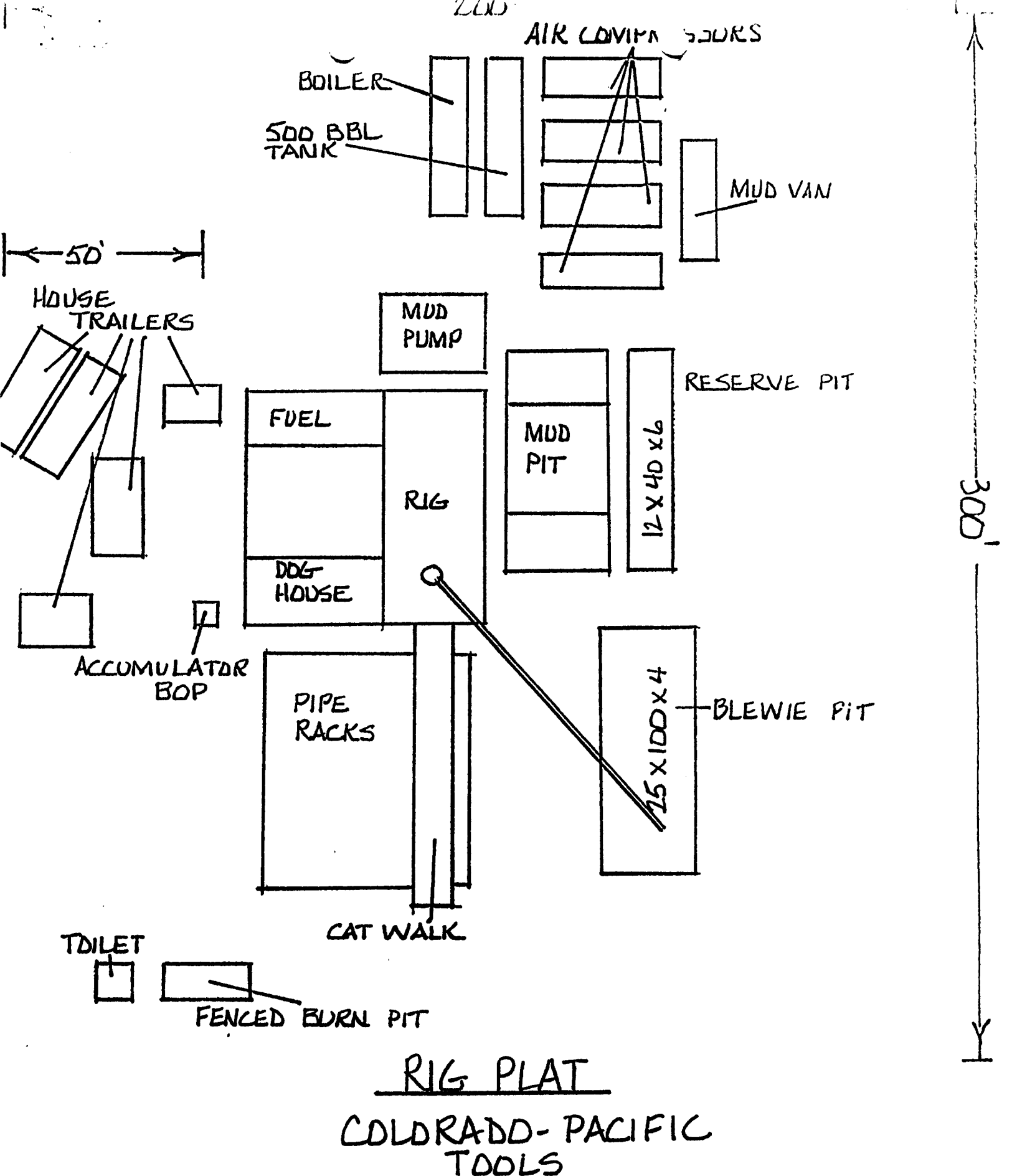
WK #1-46
NW SE Section 1, T21S, R23E
Grand County, Utah



PLAT 2

WK #1-46

NW SE Section 1, T21S, R23E
Grand County, Utah



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☒OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

COLORADO-PACIFIC PETROLEUM CORPORATION (303) 629-1564

3. ADDRESS OF OPERATOR

1020-15th Street, Suite 41N, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

NW 1/4 SE/4 Section 1, T21S, R23E; 1320' FEL, 1980' FSL
1905' 1860'

At proposed prod. zone

Dakota and Entrada

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approx. 4 1/2 miles North of Cisco, Utah and 60 miles West of

Grand Junction, Colorado

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1320'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

10

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1320'

19. PROPOSED DEPTH

1650'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4516.8' GR

22. APPROX. DATE WORK WILL START*

June 1, 1980

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24 lb.	150'	Cement to surface.
7 7/8"	4 1/2"	10.5 lb.	Thru pay zone	150-200' above upper-most hydrocarbon section.

Well will be drilled to test Dakota and Entrada Sand formations for oil or gas. All shows encountered will be tested. The well will be drilled with rotary tools, using air for circulation. The surface casing will be set at about 150' and cemented with returns to the surface. A blowout preventer with hydraulically operated blind and pipe rams will be installed on top of the surface casing; and a rotating head will be used on top of the blowout preventer. Fill and kill lines (2") will be connected below the blind rams. Any gas encountered will be flared at the end of the blowout line, and roughly checked for volume through 2" line after the pipe rams have been closed. A float valve will be used in the bottom drill collar at all times. A prognosis for the well is attached.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

KAREN K. FRENCH

TITLE

LANDMAN

DATE

May 12, 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

FOR E. W. GUYNN
DISTRICT ENGINEER

DATE

NOV 10 1980

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

*See Instructions On Reverse Side

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

Production Facilities and Flowline NOT Approved

**** FILE NOTATIONS ****

DATE: July 30, 1980

OPERATOR: Colorado - Pacific Pet Corp

WELL NO: W/P # 1-46

Location: Sec. 1 T. 21S R. 23E County: Grand

File Prepared: ☒

Entered on N.I.D: ☒

Card Indexed: ☒

Completion Sheet: ☒

API Number 43-019-30672

CHECKED BY:

Petroleum Engineer: M. J. Minder 8-6-80

Director: _____

Administrative Aide: _____

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. 102-163 11/15/80

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation Oil

Plotted on Map ☐

Approval Letter Written ☐

Hot Line ☒

P.I. ☒

#3

August 7, 1980

Colorado-Pacific Petroleum Corporation-
1020-13th Street, Suite 41N.
Denver, Colorado 80202

RE: Well No. CP #1-5, Sec. 1, T. 21S, R. 23E, Grand County, Utah
Well No. CP #1-4, Sec. 1, T. 21S, R. 23E, Grand County, Utah
Well No. WK #1-46, Sec. 1, T. 21S, R. 23E, Grand County, Utah
Well No. WK 3, Sec. 1, T. 21S, R. 23E, Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil and gas wells are hereby granted in accordance with the Order issued in Cause No. 102-16B dated November 15, 1979.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
HOME: 876-3001
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are 43-019-30674, 43-019-30671, 43-019-30672, 43-019-30267.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Petroleum Engineer

/bh

cc: USGS



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
MAXILIAN A. FARBMAN
EDWARD T. BECK
E. STEELE McINTYRE

April 21, 1981

Colorado-Pacific Petroleum Corp.
1020-15th Street, Suite 41N.
Denver, Colorado 80202

Re: SEE ATTACHED SHEET ON WELLS DUE

Gentlemen:

In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan on drilling these locations at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Sandy Bates
SANDY BATES
CLERK-TYPIST

ATTACHED SHEET ON WELLS DUE

1. Well No. CP #1-4
Sec. 1, T. 21S. R. 23E.
Grand County, Utah
2. Well No. CP #1-5
Sec. 1, T. 21S. R. 23E.
Grand County, Utah
3. Well No. WK #1-46
Sec. 1, T. 21E. R. 23E.
Grand County, Utah
4. Well No. WK #3
Sec. 1, T. 21S. R. 23E.
Grand County, Utah

SUBMIT IN DUPLICATE*

STATE OF UTAH

(See other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	Other <input type="checkbox"/>		
b. TYPE OF COMPLETION:		NEW WELL <input type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>		
				DIFF. RESVR. <input type="checkbox"/>	Other <input type="checkbox"/>		
2. NAME OF OPERATOR COLORADO-PACIFIC PETROLEUM CORPORATION							
3. ADDRESS OF OPERATOR 1020 15th St., Suite 41-N, Denver, Co. 80202							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface NWSE Section 1, T21S, R23E At top prod. interval reported below Same 1860 FSL 1905 FSL At total depth Same							
14. PERMIT NO.		DATE ISSUED					
43-019-30672		11/10/80					
5. LEASE DESIGNATION AND SERIAL NO.		U-17309					
6. IF INDIAN, ALLOTTEE OR TRIBE NAME		N/A					
7. UNIT AGREEMENT NAME		None					
8. FARM OR LEASE NAME		West Kohlman					
9. WELL NO.		WK 1-46					
10. FIELD AND POOL, OR WILDCAT		Cisco					
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA		T21S, R23E NWSE Section 1					
12. COUNTY OR PARISH		Grand					
13. STATE		Utah					
15. DATE SPUDDED		16. DATE T.D. REACHED		17. DATE COMPL. (Ready to prod.)			
1/1/81		1/25/81		4516.8 GR			
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*		19. ELEV. CASINGHEAD					
20. TOTAL DEPTH, MD & TVD		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*			
1612'				23. INTERVALS DRILLED BY			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*				25. WAS DIRECTIONAL SURVEY MADE			
				No			
26. TYPE ELECTRIC AND CABLE LOGS RUN		27. WAS WELL CORRED					
Dual Induction - SEI with Linear Correlation Log		No					
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED		
8-5/8"	24#	150'	12-1/4"	50 Sacks	None		
29. LINER RECORD			30. TUBING RECORD				
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED						
33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.		
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)					TEST WITNESSED BY		
2 Logs							
35. LIST OF ATTACHMENTS							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED <u>Elaune Johnson</u>		TITLE <u>Landman</u>		DATE <u>5/8/81</u>			

* (See Instructions and Spaces for Additional Data on Reverse Side)

December 23, 1981

Colorado Pacific Petroleum Corp.
1020 15th Street, Suite 41N.
Denver, Colorado 80202

Re: Well No. Wk. #3
Sec. 1, T. 21S, R. 23E
Grand County, Utah

Well No. Wk #1-46
Sec. 1, T. 21S, R. 23E
Grand County, Utah

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill these wells, and action will be taken to terminate the application. If you plan to drill this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING



Cari Furse
Clerk Typist

United States Department of the Interior
Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator/Project Name Colorado-Pacific Petroleum WK #1-46
Project Type Development Oil and Gas Test
Project Location 1905' FEL, 1860' FSL, Sec. 1, T21S, R23E, Grand County, ^{Utah} 80
Date Project Submitted July 25, 1980

FIELD INSPECTION Date August 27, 1980

Field Inspection

Participants	<u>Glenn M. Doyle</u>	<u>U. S. Geological Survey</u>
	<u>Elmer Duncan</u>	<u>Bureau of Land Management</u>
	<u>Jim Lucas</u>	<u>Operator</u>
	<u>Chip Hopkins</u>	<u>Dirt Contractor</u>
	<u>Typing In: 10/15</u>	
	<u>Out: 10/16</u>	

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

October 15, 1980

Date Prepared

Glenn M. Doyle
Environmental Scientist

I concur

10/27/80
Date

Elmer Duncan
District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety							6	8/27/80	
2. Unique charac- teristics					2				
3. Environmentally controversial					2				
4. Uncertain and unknown risks						4			
5. Establishes precedents					2				
6. Cumulatively significant					2				
7. National Register historic places	1 10/15/80								
8. Endangered/ threatened species	1 10/15/80								
9. Violate Federal, State, local, tribal law	5 10/04/80								3

Site-specific stipulations attached.

COMMON REFERENCE LIST

NEPA Categorical Exclusion Review

1. SMA Input
2. Reviews, reports, or information received from Geological Survey (CD, GD, WRD, TD).
3. Lease Stipulations/Terms
4. Application to Drill
5. Operator correspondence
6. Field observation
7. Private Rehabilitation Agreement

Site-Specific Stipulations

Move the location 125' west and rotate it approximately 30° west of north.



United States Department of the Interior

IN REPLY REFER TO

3100
(U-603)

BUREAU OF LAND MANAGEMENT

Moab District
Grand Resource Area
P. O. Box M
Moab, Utah 84532

October 7, 1980

Memorandum

To: Oil & Gas Office, USGS Conservation Division,
P.O. Box 3768, Grand Jct., CO 81501

From: Area Manager, Grand

Subject: Colorado-Pacific Petroleum Corporation
West Kolman (WK 1-46), Lease U-17309
NW/SE Section 1, T. 21 S., R. 23 E. SLB&M
Grand County, Utah

On August 27, 1980, a representative from this office met with Glen Doyle, USGS, and Jim Lucas agent of Colorado-Pacific Petroleum Corporation for an inspection of the above referenced location. Subject to the attached conditions, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Colorado-Pacific Petroleum Corporation.

Gregg R. Dawson ACTING

OCT 15 REC'D

These stipulations are an addendum to the June 6, 1980 stipulations, due to Utah State spacing requirements.

1. New location is 460 feet west and 251 feet south from the original location. A pre-drill field examination was held on August 27, 1980 and another move for 125 feet west was agreed on to get location out of a wash. A second Sundry Notice dated October 1, 1980 requests this move and BLM agrees by this memorandum.
2. Rig layout will be turned 30 degrees west of north to lay along the ridge top. The blooie pit will be 100 feet long by 25 feet wide and 8 feet deep, and be in the southeast quadrant of the location.
3. The new access road will enter the location at the northeast corner.
4. A trash cage will be used on location and trash will be hauled to a sanitary landfill.

EA #446-80

Usual Environmental Analysis

Project or Well Name and No.: Wk#1-46

Lease No.: U-17309 Permit No.:

USGS - Vernal
BLM - Moab
Colorado-Pacific
Colorado-Pacific
Colorado-Pacific Construction

Admin Compl?
Pat 250 x 400
Rt 25 x 100
Gos 2 x 22 new access
3615 ac - ck?
150 2nd C59 - Approval
1-2
196

DISCRIPTION OF PROPOSED ACTION

Proposed Action

1. Location State Utah
 County Grand

1320' FEL, 1980' FSL, N 1/2 SE 1/4

Section 1, T 21S, R 23E SLB M.

2. Surface Ownership Location: Public
 Access Road: Public

Status of

Reclamation Agreements: Rehabilitation plan judged as adequate. Problems hampering restoration: a) Area subject to short growing season, b) limited precipitation during growing season, and c) generally, very little topsoil which has limited organic matter and is low in fertility.

3. Dates APD Filed: May 19, 1980.
 APD Technically Complete: May 30, 1980.
 APD Administratively Complete: Oct 27, 1980.

4. Project Time Frame

Starting Date: Upon approval.

Duration of Drilling activities: 10 days.

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year, revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:
 None known.

6. Nearby pending actions which may affect or be affected by the proposed action:
 None known.

7. Status of Variance Requests:
 None known.

The following elements of the proposed action would/could result in environmental impacts:

- 1 A drill pad 250' wide x 400' long including a reserve pit 25' x 100' would be constructed. Approximately 900 feet of new access road, averaging an 16' driving surface, would be constructed from a maintained road. 2.6 acres of disturbed surface would be associated with the project. Maximum disturbed width of access road would be limited to - 22'.

The access road would be upgraded and regularly maintained for 10 miles as requested in the BLM stipulations. This road would service several wells in Section 1, T21S, R23E. The pipeline the new access road crosses will be suitably buried for its protection and to lessen any related hazards to traffic from the pipeline on the access road.

2. Drilling would be to a proposed depth of 1650 feet.
3. Waste disposal.
4. Traffic.
5. Water requirements.
6. Completion.
7. Production.
8. Transportation of hydrocarbons.
9. Other.

Details of the proposed action are described in the Application for Permit to Drill.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography is flat desert and rolling hills grading to the talus-flanked Book Cliffs.

PARAMETER

A. Geology

1. Other Local Mineral Resources to be Protected. Prospective coal in the Dakota Sandstone, probably subeconomic.

Information Source: Mineral Evaluation Report, EA #280-80.

2. Hazards:

- a. Land Stability Location and access built on Mancos Formation. Material is stable, provided the slopes are moderate and moisture content is low.

Information Source: Application for Permit to Drill.

b. Subsidence: Can occur with the withdrawal of oil, gas and/or water.

Information Source: Keller, Edward A. 1976, "Environmental Geology." Charles E. Merrill, 488 pp.

c. Seismicity: The location is in a area of minor seismic risk.

Information Source: Geologic Atlas of the Rocky Mountain Region, 1972, "Earthquakes of Record and Interpreted Seismicity 1952-1969," Rocky Mountain Association of Geologists.

d. High Pressure Zones/Blowout Prevention: No high pressure zones expected. Blowout prevention systems detailed in APD.

Information Source: Application for Permit to Drill.

B. Soils:

1. Soil Character: No detailed soil surveys done in area. Changes in soil fertility, horizons, slope stability, etc., cannot be predicted. Soils are considered nitrogen-poor, alkalic soils that support the salt-desert community.

Information Source: Field Observation.

2. Erosion/Sedimentation: Would increase as would runoff potential. Extent of increase unpredictable without site-specific studies being done.

Information Source: Field observation.

C. Air Quality: Wellsite lies in Class II Attainment area. No Class I attainment areas are near or adjacent to proposed location.

Information Source: Field Observation.

D. Noise Levels: Ambient noise levels temporarily elevated. Personnel safety could be jeopardized. Wildlife would avoid area.

Information Source: Field observation

E. Water Resources

1. Hydrologic Character

a. Surface Waters: Drainage is east then southeast to the Colorado River about 5 miles from this location.

Information Source: Field observation, Application for Permit to Drill.

b. Ground Waters: Fresh water is not anticipated but may occur in the sandstone units of the Mancos and Dakota Formations.

Information Source: Mineral Evaluation Report, EA #280-80.

2 Water Quality

a. Surface Waters: Drainages of the area are non-perennial. Proper construction of the location as outlined in the APD layout diagram should tend to minimize any hazards to surface water quality.

Information Source: Field Observation.

Ground Waters: Operator proposes 150' of surface casing. Commingling of drilling fluids with potentially usable water could render ground water unusable. Pits would be unlined.

Information Source: Field Observation, Application for Permit to Drill.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the BLM comments received from the Moab District BLM on January 9, 1980, we determine that there would be no effect on endangered and threatened species and/or their critical habitat.

2. Flora: Consists of sagebrush, rabbit brush, shadscale, wildflowers and native grasses.

Information Source: Field Observation.

3. Fauna: Mule deer, antelope, small rodents, small reptiles and various birds.

Information Source: BLM, Moab, Book Mountain Unit Resource Analysis.

G. Land Uses

1. General: Oil and gas operations, recreation, and grazing are the major land uses. The amount and quality of land available to livestock, wildlife and recreationists would be reduced during well life.

Information Source: Field observation.

2. Affected Floodplains and/or Wetlands: None.

Information Source: Field observation.

3. Roadless/Wilderness Area: Not applicable. The I-70 Interstate runs through this section.

Information Source: BLM

H. Aesthetics: Operation would not blend with natural surroundings. Most likely unappealing to recreationists. Impact duration: life of well. However, recreationists are not likely to linger in this area.

Information Source: Field observation

I. Socioeconomics: The effect of one well on local and regional population and economy would be considered minor. If major discovery, then consider Population increase, community services taxed, resources depleted, cumulative impacts multiply, pipelines and transportation routes expand.

Information Source: Field observation.

J. Cultural Resources Determination: Based on the BLM comments received from the Moab District BLM on June 9, 1980, we determine that there would be no effect on cultural resources subject to the statement "the archaeological requirement has been fulfilled on this location."

Information Source: BLM stipulation letter for this well(see attachments).

K. Adequacy of Restoration Plans: Rehabilitation plan judged as adequate. Problems hampering restoration: a) Area subject to short growing season, b) limited precipitation during growing season, and c) generally, very little topsoil which has limited organic matter and is low in fertility.

Information Source: Field observation.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.

2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Adverse Environmental Effects:

1. If approved as proposed:

a. About 2.6 acres of vegetation would be removed, increasing and accelerating erosion potential.

b. Pollution of groundwater systems could occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.

c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.

d. The potential for fires, leaks, spills of gas and oil or water exists.

e. During construction and drilling phases of the operation, noise and dust levels would increase.

f. Distractions from aesthetics during the lifetime of the project would exist.

g. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution to Colorado River would exist through leaks and spills.

h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

2. Conditional Approval:

a. All adverse impacts described in section one above could occur.

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

1. See attached Lease Stipulations.
2. See attached BLM Stipulations.

Controversial Issues and Conservation Division Response:

None present.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination:

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).

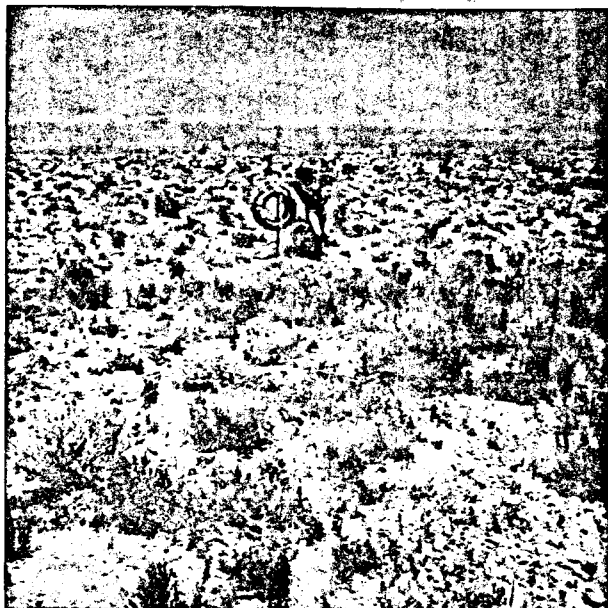


DISTRICT ENGINEER

Signature & Title of Approving Official

JUL 15 1980

Date



WK 1-46 North View of
the pad Colorado Pacific
5/20



WK 1-46 North View
Colorado Pacific
5/20

ISO 3110-1
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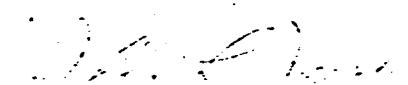
Serial No.

U- 17309

STIPULATION

As to lands administered by the Bureau of Land Management under the above oil and gas lease, the lessee hereby agrees that the following stipulations are by this reference incorporated as terms and conditions of said lease:

Before undertaking any exploratory operations involving use of bulldozers, earth-moving, or similar mobile equipment which may result in scarring of public lands, damaging surface resources, or inducing erosion thereon, he or his designee shall submit in writing to the Bureau of Land Management District Manager in the District in which the land is located, advance notice of such operation. Said operations include but are not limited to exploratory drilling, construction of access roads or airstrips, and the conduct of seismic operations.



Lessee



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

March 9, 1982

Colorado Pacific Petroleum
1020 15th Street, Suite 41N
Denver, Colorado 80202

Re: Well No. Wk #3
Sec. 1, T. 21S, R. 23E.
Grand County, Utah
FINAL NOTICE

Well No. Wk #1-46
Sec. 1, T. 21S, R. 23E.
Grand County, Utah
FINAL NOTICE

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells is due and has not been filed with this office as required by our rules and regulations.

** If we do not hear from your office within fourteen days, this file will be turned over to the attorney at the Division of Oil, Gas and Mining for legal action.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Clerk Typist